This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1(Currently Amended). A process for removing a pollutant through a foliar application, comprising the steps of:

growing a live fern plant selected from the group consisting of

Pteridaceae, Adiantaceae, Aspleniaceae, Dryopteridaceae Pteridaceae,

Adiantaceae, Aspleniaceae, Dryopteridaceae, and Oleandraceae

Oleandraceae, in an environment site containing the pollutant; and

removing a portion of the pollutant through foliar contact with a part

of the live fern plant.

Claim 2(Original). The process of claim 1, wherein the environment site includes: a contaminated aqueous solution.

Claim 3(Original). The process of claim 1, wherein the environment site includes: a contaminated water selected from at least one of: ground water and surface water.

Claim 4(Original). The process of claim 1, wherein the environment site includes: a contaminated wetlands.

Claim 5(Original). The process of claim 1, wherein the environment sites includes: a contaminated soil.

Claim 6(Original). The process of claim 1, wherein the environment site includes: a contaminated air.

Claim 7(Currently Amended). The process of claim 6, wherein the contaminated air includes: the step of further includes the step of contaminating the air environment by spraying the pollutant onto the plant part.

Claim 8(Original). The process of claim 7, wherein the pollutant includes: arsenite.

Claim 9(Original). The process of claim 7, wherein the pollutant includes: arsenate.

Claim 10(Original). The process of claim 1, wherein the live plant part includes: a live leaf portion.

Claim 11(Original). The process of claim 10, wherein the pollutant portion includes approximately 110 to approximately 4610 mg/kg of arsenic concentration per live leaf portion.

Claim 12(Original). The process of claim 1, wherein the live plant part includes: a live stem portion.

Claim 13(Original). The process of claim 12, wherein the pollutant portion includes approximately 110 to approximately 1,160 mg/kg of arsenic concentration per live stem portion.

Claim 14(Original). The process of claim 1, wherein the live plant part includes: a live spore portion.

Claim 15(Original). The process of claim 1, wherein the pollutant portion includes approximately 760 to approximately 3,710 mg/kg of arsenic concentration per live spore portion.

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Claim 16(Canceled).

Claim 17(Currently Amended). The process, according to claim 1, wherein said fern plant is of the family <u>Pteridaceae</u> <u>Pteridaceae</u>.

Claim 18(Original). The process, according to claim 1, wherein said fern plant is of the family *Adiantaceae*.

Claim 19(Original). The process, according to claim 1, wherein said fern plant is *Adiantum raddianum*.

Claim 20(Original). The process, according to claim 1, wherein said fern plant is of the genus *Pteris*.

Claim 21(Original). The process, according to claim 1, wherein said fern plant is *Pteris cretica* parkerii.

Claim 22(Original). The process, according to claim 1, wherein said fern plant is a *Pteris cretica* albo-lineata.

Claim 23(Original). The process, according to claim 1, wherein said fern plant is a *Pteris cretica* mayii.

Claim 24(Original). The process, according to claim 1, wherein said fern plant is a *Pteris vittata*.

Claim 25(Original). The process, according to claim 1, wherein up to approximately 100% of arsenic in the environment site is being removed.

Claim 26(Currently Amended). A process for removing a pollutant through an excised plant part, comprising the steps of:

excising a part of a live fern plant selected from the group consisting of Pteridaceae, Adiantaceae, Aspleniaceae, Dryopteridaceae Pteridaceae.

Adiantaceae, Aspleniaceae, Dryopteridaceae, and Oleandracea

Oleandracea;

applying the excised plant part to an environment site containing the pollutant; and

removing a portion of the pollutant through contact with the excised plant part.

Claim 27(Original). The process of claim 26, wherein the excised plant part includes: an excised leaflet.

Claim 28(Original). The process of claim 26, wherein the environment site includes: a contaminated aqueous solution.

Claim 29(Original). The process of claim 26, wherein the environment site includes: a contaminated water selected from at least one of: ground water and surface water.

Claim 30(Original). The process of claim 26, wherein the environment site includes: a contaminated wetlands.

Claim 31(Original). The process of claim 26, wherein the environment sites includes: a contaminated soil.

Claim 32(Original). The process of claim 26, wherein the environment site includes: a contaminated air.

Claim 33(Original). The process of claim 32, wherein the contaminated air includes: the step of

contaminating the air environment by spraying the pollutant onto the excised plant part.

Claim 34(Original). The process of claim 26, wherein the pollutant includes: arsenite.

Claim 35(Original). The process of claim 26, wherein the pollutant includes: arsenate.

Claim 36(Original). The process of claim 26, wherein the pollutant portion includes: approximately 1,961 to approximately 4,066 mg/kg of arsenic per plant part.

Claim 37(Currently Amended). The process, according to claim 26, wherein said fern plant is of the family <u>Pteridaceae</u> <u>Pteridaceae</u>.

Claim 38(Original). The process, according to claim 26, wherein said fern plant is of the family *Adiantaceae*.

Claim 39(Original). The process, according to claim 26, wherein said fern plant is *Adiantum raddianum*.

Claim 40(Original). The process, according to claim 26, wherein said fern plant is of the genus *Pteris*.

Claim 41(Original). The process, according to claim 26, wherein said fern plant is *Pteris cretica* parkerii.

Claim 42(Original). The process, according to claim 26, wherein said fern plant is a *Pteris cretica* albo-lineata.

Claim 43(Original). The process, according to claim 26, wherein said fern plant is a *Pteris cretica* mayii.

Claim 44(Original). The process, according to claim 26, wherein said fern plant is a *Pteris vittata*.

Claim 45(Original). The process, according to claim 26, wherein up to approximately 100% of arsenic in the environment site is being removed.

Claim 46(Currently Amended). A process for removing a pollutant through ground plant part, comprising the steps of:

excising a part of a live fern plant selected from the group consisting of Pteridaceae, Adiantaceae, Aspleniaceae, Dryopteridaceae Pteridaceae, Adiantaceae, Aspleniaceae, and Oleandracea

Oleandracea;

grounding the plant part into a ground up parts of biomass;
removing a portion of the pollutant through contact with the ground
up parts of the biomass.

Claim 47(Original). The process of claim 46, wherein the plant part includes: a leaflet.

Claim 48(Currently Amended). The process of claim 46, wherein the ground up parts of the biomass is: fresh ground up parts of the biomass.

Claim 49(Currently Amended). The process of claim 46, wherein the ground up parts of the biomass is: air-dried ground up parts of the biomass.

Claim 50 Currently Amended. The process of claim 46, wherein the ground up parts of the biomass is: freeze dried ground up parts of the biomass.

Claim 51(Original).

The process of claim 46, wherein the pollutant

includes: arsenite.

Claim 52(Original).

The process of claim 46, wherein the pollutant

includes: arsenate.

Claim 53(Canceled).